

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 02/14865

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B23K20/02 B23K20/14 B23K11/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B23K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 669 650 A (MOE PER H) 2 June 1987 (1987-06-02) cited in the application the whole document ---	1-21
A	US 5 721 413 A (MOE PER H) 24 February 1998 (1998-02-24) cited in the application the whole document ---	1-21
A	US 4 736 084 A (MOE PER H) 5 April 1988 (1988-04-05) the whole document ---	1-20
A	US 5 163 604 A (MOE PER H) 17 November 1992 (1992-11-17) the whole document ---	1-20
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

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O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

S document member of the same patent family

Date of the actual completion of the international search

30 April 2003

Date of mailing of the international search report

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 4 566 625 A (MOE PER H) 28 January 1986 (1986-01-28) the whole document -----	1-20

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